

## **DL4933 THRU DL4937**

### SURFACE MOUNT FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 600 Volts Forward Current - 1.0 Ampere

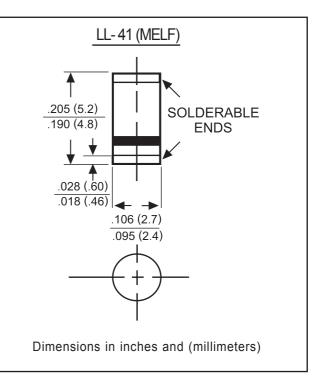
#### **FEATURES**

- Ideal for surface mounted applications
- Low leakage current
- Glass passivated junction

#### **MECHANICAL DATA**

Case: Molded plastic EPOXY: UL 94V-0 rate flame retardant Teminals : Solder plated solderable per MIL-STD-202E, Method 208 guaranteed Mounting Position: Any Weight: 0.12 grams





#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Characteristic	SYMBOLS	DL 4933	DL 4934	DL 4935	DL 4936	DL 4937	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	V
Maximum RMS voltage	Vrms	35	70	140	280	420	V
Maximum DC blocking voltage	Vdc	50	100	200	400	600	V
Maximum average forward rectified current	kas	I(AV) 1.0					А
0.375″(9.5mm) lead length at T <b>a</b> =75℃	I(AV)						
Peak forward surge current							
8.3ms single half sine-wave superimposed on	Іғѕм 30.0					A	
rated load (JEDEC Method)							
Maximum instantaneous forward voltage at 1.0A	Vf	1.2					V
Maximum DC reverse current Ta=25°C		5.0 50.0					μA
at rated DC blocking voltage Ta=100°C	lr						
Maximum reverse recovery time (NOTE 1)	trr	200					ns
Typical junction capacitance (NOTE 2)	CJ	15.0					pF
Typical thermal resistance (NOTE 3)	Reja			50.0			°C/W
Operating junction and storage temperature range	Tj,Tstg	-65 to +150					°C

Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C. 3.Thermal resistance from junction to ambient at 0.24″ (6.0mm)lead length,P.C.B. mounted



# **DL4933 THRU DL4937**

### **RATINGS AND CHARACTERISTIC CURVES**

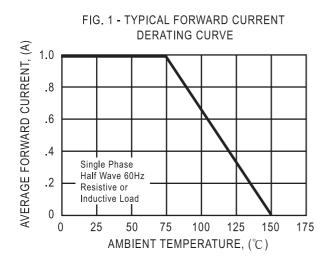
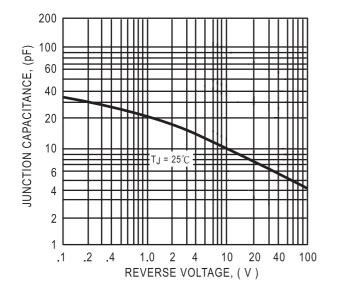


FIG. 3 - TYPICAL JUNCTION CAPACITANCE



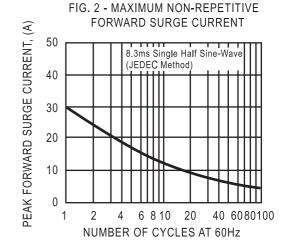


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

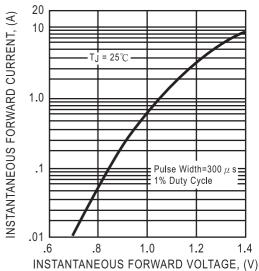


FIG. 5 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

